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Forecasts of Production in the Production Area of Chemistry of the Ministry of Heavy Industry

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THIS IS UNEVALUATED INFORMATION

1. Plans for production during the years 1954 to 1960 in the Production Area for Chemistry of the Ministry of Reavy Industry were discussed at a meeting at which the following persons were present:

The chiefs of all HV's (main administrations) and their technical managers

- A representative of the State Planning Commission
- A representative of the Central Office for Research and Technology
- A specialist on investments
- A representative of the Planning Department.
- 2. The purpose of the discussion was to make a rough forecast of the production of each HV for the period involved. It was decided not to limit the forecasts to the planned investment total of 2 to 2.5 billion IME.
- 3. The following individual forecasts were made by the chiefs of the various HV's:

HV Potash and Non-metall	ic ores	(Units are to	ns (t) or t	housand tons (It)
I tem	Unit	1954	1960	Remarks
Potash salts	Ît	1,350	1,750	Potassium products will of be increased about 400 Tt
Crude potash salts Fluorspar Barium sulphate	Tt Tt Tt	1,350 37.6 7.5	1,750 52 eff 5	Reduction because of exhaustion of sources. The 5,000 ton figure includes production from less concentrated barium sulphate. A processing plant will be built to take care of this.
Pyrites	Tt	105	110	
Sodium sulphate remains Magnesium sulphate	Tt	105	105	

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Item	Unit	1954	1960	Remarks
odium nitrate	tn 2/	300	300	
otessium ammonium	47 O /	10 250	10.350	
nitrate	tn <u>2</u> /	10.350		
Investments		1954	In millions	of DEE
expansion-potash	CME	116		These invertments include the year 1955; the total includes also construction of a flotation plant.
Minor installations		18		
Maintenance	£ &	100		
Sinking a second sha in the Marx-Engels-	Plant	15		
Building a carol		100		
For non-mining purpo	893	<u>26</u> 375		
YOTAL		212		
Hy General Chemistry	,			
Item	Unit	1954	1960	Renarks
Inorganic laboratory	i		17	Increased production in
J.10.442 - W.1	llaon D	me 67	11	VIB Schering and VIB Apolds
hynthetic organic tunning substances	*	3,000	6,000	
Lithopene	*	6,800	16,000	This increase is largely dependent upon profustion of barrum sulphate
Barium carbonate	t	5,000	5,000	This increase is necessary to fulfill large orders from the Zeiss and Schott
				Works.
Mixed phosphate				
(Na.Mg-Phosphate)	敦	6,000	10,000	Depends on the amount of
ня лив-тпоядивсе (••	2,000	•	charred alop (Schlempekohie)
Triacotate		e e e	4.800	produced. Caximum capacity to be
cellulose Carbon dioxide	₹	550 3,000	12,000	reached in 1958. Since By Heavy Chemistry has all planned a targe production of this item, the products of HV General Chemistry may find outlets in the varnish industry. The necessary raw materia are available In the case varnishes and paints, no in crease of capacity will result; installation will be im- proved and developed.
Polyplaste and				
artificial resuns		3,000	6,000	
varnish base Varnishes and paint	t t s	2:000	0,000	
varmishes and pain varmishes and pain	1.	. 29,000	46,000	
with cellulose bu	88			
(partly triacelate	t	9,000	16,000	
bace) Hardening of veget		7,4000		
fats for margaria Patty alcohols and	g t	55,000	65,000	
sorbite	t ion DM	5.000 3	12,000	
ung (au Andrewsen (des autrend de) der 20 manutar 19 febr		72		These investments include
Expansion Maintenance		113 to 1	15	the year 1955, but do not
maxiles mantee		SEC		include branch installation
		L-12303		4 ·

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HV Liquid Fuels (Fluessige Brennstoffe)

- Discussions between this HV and the Coal Division of in Ministry of Heav, Industry have not yet led to agreement. Hence the incompleteness of the figures for HV Liquid Fuels. An agreement with HV Heavy Chemistry concerning Leuna production is absolutely necessary. It is planned to increase production of tar and light oils from 1.7 million tons in 1954 to 2.5 million in 1960. Four hundred thousand tons of this are estimated to be allotted to a planned increase of brown coal production in the Lausitz region. HV Liquid coels plans expansion in this region to avoid unnecessary transportation costs and lines.
- b. The capacity for processing petroleum at Leuna is to be raised to 500,000 or 600,000 tons in 1954.
- c. Production of aromatics is to be increased. For this, an agreement with Leuna is necessary. Also, it must be decided whether the production of gasoline or of Diesel fuel is to be expedited. At present the production of both is about equal. The extraction of about 16,000 tons of aromatics at Leuna is planned. This quantity is far too low and can possibly be increased.
- d. At Boehlen, production of 35,000 to 49,000 tons is planned. The first figure can be attained with maximum gasoline production. To attain the second figure, an increase in Diesel fuel production is necessary. The production of phenol has not yet been decided upon. Leuna has planned an increase in phenol production from 7,000 tons in 1954 to 11,000 tons in 1960.
- e. <u>Investments</u>: 800,000 DME planned, not counting Leuna and the projected Lausitz installation.

Investments Tire Industry Synthetic fibers 525 for years 1956 - 1960 Rubber manufacture Million DLE No increase, but more Cellulose different types planned Contrary to the demands of light industry, no production of viscosa artificial silk is planned. This increase is urgently 000,6 tons 4,300 Viscose cord silk needed to take care of increased production of PKW tires. Expansion will take place in Filmfabrik Wolfen, since here no great

HV Synthetic Products (Kunststoffe)

Artificial acctate silk Fine perlon silk

Item

Production is to be raised to 5 tons per day.

Production is to be raised from 1,000 tons in 1956
to 2,000 tons in 1960. Contrary to the original plans
capacity will be expanded at solfen, where labor
conditions are better, rather than at Schwarza.

Remarks

changes in construction are necessary. A simultaneous expansion in the Leipzig cotton mills is absolutely necessary, otherwise increased production of this

item is senseless.

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Perlon cord silk Perlon threads

Production will remain constant at 500 tons.

B and J

Terlene

Production to be increased from 1,040 tons 11 .956 to 3600 tons in 1960. Type B will be increased until its

Scol crylon (Orlon)

production reaches the level of production of Type 🗓 Production to be raised from 300 tens in 1955 to 5.000 tons in 1960, depending on production of necessary raw materials, particularly acrylonitrile, by HV Heavy Chemistry Production to be increased from 10 tons in 1955 to 1.830 tons in 1960. The production of this completely synthetic fiber is desirable because of its quality of retaining

its shape, and consequently its use for outer garments Moreover, the Council for Mutual Aid should make an agreement for increasing production of crylon in Bast Germany and expanding production of terlene in the

Czechoslovak Republic.

PC-fibers

Flactica

Production to be increased from 600 tons in 1956 to 1,400 tons in 1960. By this production, existing capacity of Filmfobrik Holfen will be fully utilized. No

expansion can be undertaken

Cellophane 720

It is urgently necessary to begin production of this naterial to cover the large demands of the packing Packing with other artificial materials industry is too expensive and not suitable for foodstiffs.

Linters (Bilenburg)

Production to be raised from 1,800 tons in 1956 to 12,500 tons in 1960. This production is intended for coppered artificial silk (Kupferkunstseide) and triacetate

Edible and fat yeast (Nachr- und Pottheile)

cellulose.

Production to be expanded from 2,200,000 kgs 4m

6,000,000 kgs. Production is to be increased by 100 percent

te 15,000 tens from 8,000 tons Pressed phenon-plastics from 3,500 tons from 11,500 tons to 7,000 tons to 22,000 tons Amino-plastics Total duroplastics to 60,000 tons PVC without filler from .35,000 tons

to 5,000 tons from 1,100 tons oclystyrol Acetate (Vinyl acetate) 5,000 tons 2,000 tons Polyethylene 250 tons Polymeta-acrylic acid Polyisolbutylene (Cpanol) Leuna ---1.000 tens Cloxid (sic) resin 500 tons 5,000 tons Triacetate cellulose

luminated pressed material 2 Production to be increased from 1,500 tens in 1954 to 2,500 tone in 1960.

Colluloid planes Motor truck tires

"Forokrepp")

Production or remain consteat at 600 tons, The necessary investments will amount to between 120 million DME and 150 million DMD. According to the discussion with the machine construction industry, production must be raised from 1.2 million units to 2.2 minimum (2.8 maximum). In this is included exports of about 450,000 units, principally for the China trade

Cell rubber (foam rubber, sponge rubber, and

Production to be increased from 2,000 in 1954 to 8,000 tons in 1960. This production is especially useful for the upholstering industry and for vehicles. Tests have shown that cell rubber cannot be replaced by Zelligelite which lacks the necessary elasticity.

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Conveyor belts

Production to be raised from 1,500,000 square meters to 2,500,000 square meters, including 500,000 square

meters for export.

Come belts

Production to be increased from 1,500,000 meters in 1954 to 3,000,000 meters in 1960.

Investments: The remainder of the rubber industry is to be raised from 111,000,000 DME in 1954 to 150,000,000 DME in 1960. The increase will be allotted especially to technical products and rubber articles. For the above production, raw material needs will rice as follows:

Synthetic rubber - approximately 40 percent to 48,000 tons of Buns 37 Natural rubber - approximately 400 percent to 13,200 tons

about half of the above production is allotted to individual industries (tire industry, miscellaneous rubber goods industry).

In the photographic industry production is to be increased as follows:

Raw film 14,630,000 square meters 20,000,000 square meters color, negative Cinema film 2,850,000 square meters 2,850,000 square meters 3,500,000 square meters 3,500,000 square meters

color, positive

Expansion of colored film production must be weighed very casefully Export needs are the decisive factor. Export tights must be checked to see whether the Soviet Union will take as much color film in the future as in the past. Photographic paper production is to be increased from 7,000 square meters to 16,000 square meters. Suffice it raw materials must be acquired; a contract must be made with light industry for the increase of the manufacture of photographic paper, particularly with regard to the delivery of linters for this production.

	Heavy Cl	emistry		
Item	Unit	1954	1960	Remarks
FCU powder	tons	3 3 ,000	48,000	In order to reduce the use of carbide, DK Bitterfeld is planning a cracking installation
Polystyrol	tons	- * ræ *	19,180	-
Urea	tons	1,240	12,000	
Dicyandiamide	tons	6,474	12,074	
Buna	tons	68,000	84,000	Here also, to reduce the use of carbide, research must find means to secure Buna from3/
Plexiglass (Piesteritz)	tons	este cita	480	It is planned to produce Skelen(sic)instead of Astralon
Caprolactam	tons	2,800	5,400	
Adipin acids	tons	430	5,500	
Polyacrylonitrile	tons	18	5,540	
Pheno1	tons	6,900	11,000	For this Leuna needs about 200,000 tons of light oil. Procurement will be difficult mecause of needs of NV liquid Fuels
Primary nitrogen	tons	29 8 ,000	370,000	Production is to reach 315,000 tons in 1956, 400,000 tons in 1961

The NF calefs made a rough guess that experts would amount to about 1,201,000,000 to 1,500,000,000 DME. These somewhat low figures is not take into account the considerable increase in volume of experts for the industries such as Machine Construction and Light Industry which will profit from the expanded production of the Chemistry Division.	Summary 3. Total estimated insuncial requirements for the Chemistry Division and Shout 4,000,000,000 DNE. The NT calefs made a rough guess that experts would amount to about 1,201,000,000 to 1,500,000,000 DNE. These somewhat low figures is not take into account the considerable increase in volume of exports for the industries such as Machine Construction and Light Industry which will
The NY calefs made a rough guess that experts would amount to about 1,200,000,000 to 1,500,000,000 DME. These somewhat low figures is not take into account the considerable increase in volume of exports for the industries such as Machine Construction and Light Industry which will	The No calefs made a rough guess that experts would amount to about 1,200,000,000 to 1,500,000,000 DME. There somewhat low figures is not take into account the considerable increase in volume of exportator the industries such as Machine Construction and Light Industry which will
The NV calefs made a rough guess that exports would amount to about 1,200,000,000 to 1,500,000,000 DMM. These somewhat low figures is not take into account the considerable increase in volume of exports for the industries such as Machine Construction and Light Industry which will	The NV calefs made a rough guess that experts would amount to about 1,200,000,000 to 1,500,000,000 DMM. These somewhat low figures is not take into account the considerable increase in volume of exportator the industries such as Machine Construction and Light Industry which will
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Services

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Item				
	Unit	1954	1960	Remarks
Nitric acid Nitrogen fertilizer	tons	26,00	00 38,000	
Ammonium sulfate Calcium ammonium nitrate (Kalkammonsalpeter)	tons	No Change 422,00		Increased production planned for Farbenfa- brik Colfen and Ex
Mixed fertilizer (Piesteritz)	tons		290,000	Bitterfeld eff. 1/ with this production are included 240 tons of rare soils as by- products urgently need ed for other production The production of Kalkstickstoff is not to be increased.
Phosphorus fertilizer	tons	87,00	0 200,000	
Sup er phosphate	tons		80,000	By inclusion of Coawig
Mixed phosphate	tons	. •	37,000	Includes Dessau with 10 tons
Nitrogen lime phosphate	tons		60,000	P ₂ 0 ₅
Thomas meal	tons	es	10,000	P.O. A method of pro- ducing in addition to the kiln methodis being developed
Fuel VK	tons	242,00	0 351,000	
Fuel DK	tons	111,00		
Caustic soda	tons	239,00		In 1955 it is planned to produce 45,000 tons in Bernburg
Chlorine	tons	190,00	0 326,000	
Hydrochloric acid	Prod	uction to	be raised	by 12,000 tons
Soda	tons	390,00	0 555,000	Bernburg production to be raised by 143,000 tons; Stassfurt 20,000 tons
Lluminum	tons	24,00		
Magnesiun	tons	e	10,800	This production must be taken in connection with magnesium chloride The export possibilitie for magnesium must be
Alumina	tons	41,30	0 80,000	examined The Lauta installation can provide 60,000 tons. For the remainde
	tons	41.30	0 80 ,000	examined The Lauta installation can provide 60,000
Alumina Hydrofluoric acid	tons tons	41.30		examined The Lauta installation can provide 60,000 tons. For the remainde (20,000 tons) the nec- essary installations must be built in ER Bitterfeld and Farben-
Hydrofluoric acid		•		examined The Lauta installation can provide 60,000 tons. For the remainde (20,000 tons) the nec- essary installations must be built in ER Bitterfeld and Farben- fabrik Wolfen The deterioration of the Dohna Fluctworke makes necessary the construction of a new factory. The Dohna works must be shifted because they are ruin
	tons	•	0 6,000	examined The Lauta installation can provide 60,000 tons. For the remainde (20,000 tons) the nec- essary installations must be built in ER Bitterfeld and Farben- fabrik Wolfen The deterioration of the Dohna Flucrwerke makes necessary the construction of a new factory. The Dohna works must be shifted

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Itec.	Unit	1954	1960	Romsinks
Sulphuric acid	tons	e e e e e e e e e e e e e e e e e e e	500 , 000	The construction of a Gipsconnecessacure plant in Coswig is planted. Sulphurburning for preduction of sulphuric acid must be stopped as soon as possible.
Carbide	tons	9 .	948,000	For solvento, Relamine, etc.
Organic solvents Acetone Butylacetate Othyl benzene Prichleroethylene Methylenchleride	tons tons tons tons tons tons	720 3.600	5,000 7,200 10,800 35,800 20,000 2,400	This position must definitely be increased, otherwise the
				planned production of tri- acetate cellulore is useless.
Methanol Carbon tetra-	tons	<u>.</u> :	120,000	
chloride Organic dyestuffs	tons	5 ₊ 244	9,000,000 5,973	The variety must be increased, especially that of light-resisting dyes. To production of Indanthrens and Anthrapene-dyestuffs is planned, for the outlay would be too costly, and greatly expanded production in Poland is planned.
Synthetic tanning substances	tons	1.200	3,210	Since MV General Chemistry is also planning increased production of this item, emphasis must be placed on improvement of quality.
				increase production largely on a sulfite solution base (Sulfiteblauge-basis) instead of a phenol one.
Palatinols	tons		8,000	
Tribex:1 phosphate Vulkezite	tons tons	∞# 	600 1 275	
Wofatite	tons	<u>-</u>		It is planned is to change this position to styrel resins

It is planned to increase the capacity for production of the following items, as well as to extend their varieties:

Pharmaceutical products Insecticides Pentachlorophenol

Rongalite (sis)
Hydrosulfite
Fotassium barium chromate
Eirconium dioxide
Tetraethyl lead

At Leuna or Wolfen

Investments: 1.945.000,000 DME

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Iter.	Unit	1954	1960	Remarks
Sulphuric acid	tous	<u> </u>	500,000	The construction of a Gipsschwefelsacure plant in Coswig is planned. Sulphurburning for production of sulphuric acid must be swopped
Carbide	tons	-	948,000	as soon as possible. For solvents, Solamine, etc.
Organic solvents Acetone Butylacetate Ethyl benzene Trickloroethylene Hethylenchloride	tons tons tons tons tons	720 3.600	5,600 7,200 10,800 35,800 20,000 2,400	This position must definitely be increased, otherwise the planned production of tri-acetate celluloge is useless.
Methanol Carbon tetra-	tons		120,000	
chlcride	tons		9,000,000	
Organic dyestuffs	tons	3,244	5.973	The variety must be increased, especially that of light-resisting dyes. To production of Indanthrene and Anthrazene-dyestuffs is planned, for the outlay would be too costly, and greatly expanded production in Poland is planned.
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Palatinols Trihex;1 phosphate Vulkazite Fofatite	tons tons tons	en Ma Wil An	8,000 600 1,275 72 5	•

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Pharmaceutical products Insecticides Pentachlorophenol

Rongalite (sis)
Hydrosulfite
Potassium barium chromate
Zirconium dioxide
Tetraethyl lead

At Leuna or Wolfen

Investments: 1,945,000,000 DME

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